University of the West of Scotland

Module Descriptor

Session: 2023/24

Title of Module: Bioscience	Research Project		
Code: BIOL10006	SCQF Level: 10 (Scottish Credit and Qualifications Framework)	Credit Points: 40	ECTS: 20 (European Credit Transfer Scheme)
School:	School of Health a	nd Life Sciences	
Module Co-ordinator:	Gary Litherland		
Summary of Module			
A supervised introduction to lindependent problem solving research practice.			
To develop/refine critical ana paradigms over a variety of e			ge of research
To apply skills learned across conduct, analysis and presen producing thereby a literature concise scientific paper, or m	itation of a data-base review, logbook ar	ed project spannin	g two semesters,
This module is also suitable f research.	or students wishing	to engage with bio	logical aspects of
In this module you will gain g and understanding to be deve prepare for life and work in th	eloped through you	r university experie	nce that will
 Universal - globally reand behaviours Work ready - dynamic changing environments which Successful - as a UW succeeding and realising my Through studying and graduat dimensions: Academic - knowledg Personal - qualities and responsible individuals Professional - skills, a life in the 21st Century 	and prepared for en n require lifelong lea S graduate with a s potential, across va ating from UWS, you e, skills and abilities and characteristics of	employment in comp arning and resilienc olid foundation on v irious contexts u will develop attrib s related to high-lev f well-rounded, dev	plex, ever- e which to continue utes across three rel academic study eloped,

Module Delivery Method							
Face-To- Face	Blended	Fully Online	HybridC	Hybrid 0	Work-Based Learning		
\boxtimes			\boxtimes				
See Guidanc	e Note for deta	ils.					

Campus(es) for Module Delivery

The module will **normally** be offered on the following campuses / or by Distance/Online Learning: (Provided viable student numbers permit) (tick as appropriate)

Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:	Distance/Online Learning:	Other:
\boxtimes						Add name

Term(s) for Module Delivery							
(Provided viab	ble student nur	nbers permit).					
Term 1		Term 2	\boxtimes	Term 3			

These appro	ing Outcomes: (maximum of 5 statements) e should take cognisance of the SCQF level descriptors and be at the priate level for the module. end of this module the student will be able to:
L1	Acquire experience of researching an identified biological question using knowledge and understanding acquired in the programme
L2	Prepare an independent critical review of literature in order to identify an agreed testable question and develop/refine critical analytical skills by engaging with a range of ethical and biologically-related research models.
L3	Collect, collate and analyse data in a scientific manner
L4	Develop skills and gain experience relevant to the experimental and/or theoretical aspects of the problem posed, including modification and redesign to address emerging issues and to report results both orally and in the form of a concise scientific paper.
L5	Act autonomously, or with little guidance, to devise and sustain an independent project to develop new areas of knowledge and skills as necessary
Emplo	oyability Skills and Personal Development Planning (PDP) Skills

SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:
Knowledge and Understanding (K	SCQF Level 10
and U)	To develop detailed knowledge and understanding in a specialized area, informed by or at the forefront of the subject/discipline.
	Knowledge and understanding of a range of established techniques of enquiry and/or research methodologies.
Practice: Applied	SCQF Level 10
Knowledge and Understanding	Execute a defined project of research to derive relevant outcomes.
	Practice in a range of professional contexts that exhibit uncertain outcomes.
	Use skills, practices or materials which are specialized, advanced, or at the forefront of a subject or discipline.
Generic Cognitive skills	SCQF Level 10
	Critically identify, define, conceptualise, and analyse complex/professional level problems and issues.
	Critically review and consolidate knowledge, skills and practices.
	Demonstrate some originality during project implementation.
Communication, ICT and Numeracy	SCQF Level 10
Skills	Use a wide range of routine skills in addition to some advanced and specialised skills.
	Use a range of software to analyse data and produce a professional report, including interpretation.
	Use and evaluation of a wide range of numerical and graphical data.
Autonomy, Accountability and	SCQF Level 10
Working with others	Exercise autonomy and initiative during the project work.
	Exhibit awareness of responsibilities in a multi-user environment e.g. a laboratory. Work effectively with project supervisor.
	Demonstrate an awareness of current ethical issues and adopt a professional code of conduct. Utilising supervision effectively to progress study.

	Working independently to meet learning outcomes.					
Pre-requisites:	Before undertaking this module the student should have undertaken the following:					
	Module Code: Module Title:					
	Other:Pre Requisites - The student mu the entry qualifications to the ap Honours Programme. Co-Requi Complementary programme					
Co-requisites	Module Code:	Module Title:				

*Indicates that module descriptor is not published.

Learning and Teaching	
This module will require the student to undertake an inve- topic in bioscience. A review of the literature will be prep investigation carried out to generate data for analysis. In based topic may be investigated. A final report will be pre- and conclusions of the research project.	ared and a practical some cases a non-laboratory
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)
Laboratory/Practical Demonstration/Workshop	228
Tutorial/Synchronous Support Activity	12
Personal Development Plan	3
Independent Study	157
	400 Hours Total
**Indicative Resources: (eg. Core text, journals, inter	net access)

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Dedicated VLE.

Access to primary literature is essential. Key references for each project will be provided by Project Supervisor.

Specialized reference material, books and online databases necessary for individual projects

(**N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the <u>Student Attendance and Engagement Procedure</u>: Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

Attendance at synchronous sessions (meetings with supervisor(s), tutorials, Health and safety and laboratory induction and practicals), completion of asynchronous activities, and submission of assessments to meet the learning outcomes of the module.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: <u>UWS Equality, Diversity and Human Rights Code.</u>

In line with current legislation (Equality Act, 2010) and the UWS Equality, Diversity, and Human Rights Code, our modules are accessible and inclusive, with reasonable adjustment for different needs where appropriate. Module materials comply with University guidance on inclusive learning and teaching, and specialist assistive equipment, support provision and adjustment to assessment practice will be made in accordance with UWS policy and regulations. Where modules require practical and/or laboratory-based learning or assessment required to meet accrediting body requirements the University will make reasonable adjustment such as adjustable height benches or assistance of a 'buddy' or helper.

Please refer to the UWS Equality and Diversity Policy at the following link: https://www.uws.ac.uk/about-uws/uws-commitments/equality-diversity-inclusion/ (N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	Biological Sciences and Health
Assessment Results (Pass/Fail)	Yes □No ⊠
School Assessment Board	Biology
Moderator	Andrew MacKenzie
External Examiner	A Tsaousis
Accreditation Details	This module is part of the BSc (Hons) Biomedical Science programme; accredited by Institute of Biomedical Science (IBMS) and approved by Health & Care Professions Council (HCPC) as part of BSc (Hons) Applied Biomedical Science programme. This module is part of the BSc (Hons) Applied Bioscience and BSc (Hons) Applied Bioscience with Forensic Investigation programmes; accredited by Royal Society of Biology (RSB).
Changes/Version Number	5.04

Assessment: (also refer to Assessment Outcomes Grids below)

Assessment 1 – Term 1 - Literature review, Project practical work to be continued into Term 2 (30%)

Assessment 2 – Term 2 - Project conduct & logbook (10%), Oral presentation (10%), Final report (50%)

(N.B. (i) **Assessment Outcomes Grids** for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed.

(ii) An **indicative schedule** listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Assessment Outcome Grids (See Guidance Note)

Component	1						
Assessme nt Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Outcome	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetable d Contact Hours
Dissertatio n/ Project report/ Thesis	V	V	~		V	30	0

Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetable d Contact Hours
Dissertation/ Project report/ Thesis	~	✓	~	✓	~	50	0
Report of practical/ field/ clinical work	~	~	~	~	~	10	0
Presentation	~	\checkmark	~	~	~	10	4